



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David A. Edwards and Jeffrey S. Hrkach

Application No.: 09/383,054 Group Art Unit: 1615

Filed: August 25, 1999

Examiner: Amy E. Pulliam

Confirmation No.: 6042

Title: STABLE SPRAY-DRIED PROTEIN FORMULATIONS

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202	
on <u>4/7/03</u>	Signature <u>Rachel Cohen</u>
RACHEL COHEN	
Typed or printed name of person signing certificate	

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
P.O. Box 2327
Arlington, VA 22202

Sir:

This Information Disclosure Statement is submitted:

 under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

 under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

 under 37 CFR 1.97(c) together with either: a Statement under 37 CFR 1.97(e), as checked below, or a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

 under 37 CFR 1.97(d) together with: a Statement under 37 CFR 1.97(e), as checked below, and a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

 under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

1615
1615
RECEIVED
APR 11 2003
TECH CENTER 1600/2900
9/23/03

Statement Under 37 CFR 1.97(e)

- Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Enclosed herewith is form PTO-1449:

Copies of the cited references are enclosed.

Copies of cited references are enclosed except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]

The listed references were cited in the enclosed International Search Report in a counterpart foreign application.

The "concise explanation" requirement (non-English references) for reference(s) [] under 37 CFR 1.98(a)(3) is satisfied by:

the explanation provided on the attached sheet.

the explanation provided in the Specification.

submission of the enclosed International Search Report.

submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.

the enclosed English language abstract.

[] Applicant requests that the following non-published pending applications be considered:

Examiner's
Initials

 U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

 U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

 U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

Examiner

Date

[] A copy of each above-cited application, including the current claims, is enclosed.

[] A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- [] A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- [] Please charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is enclosed.
- [X] Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Anne I. Craig
Anne I. Craig
Registration No.: 32,976
Telephone: (978) 341-0036
Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated: 4/4/03

PTO-1449 REPRODUCED

FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

APR 09 2003

April 1, 2003

(Use several sheets if necessary)

ATTORNEY DOCKET NO.
2685.1003-001APPLICATION NO.
09/383,054

APPLICANT

David A. Edwards, *et al.*

FILING DATE

August 25, 1999

CONFIRMATION NO.

6042

GROUP

1615

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AJ3	2,470,296	05/17/49	Fields
	AK3	2,533,065	12/05/50	Taplin <i>et al.</i>
	AA4	2,992,645	07/18/61	Fowler
	AB4	3,781,230	12/25/73	Vassiliades <i>et al.</i>
	AC4	3,957,965	05/18/76	Harley <i>et al.</i>
	AD4	4,009,280	02/22/77	Macarthur, <i>et al.</i>
	AE4	4,089,800	05/16/78	Temple
	AF4	4,161,516	07/17/79	Bell
	AG4	4,173,488	11/06/79	Vassiliades, <i>et al.</i>
	AH4	4,272,398	06/09/81	Jaffe
	AI4	4,352,883	10/05/82	Lim
	AJ4	4,391,909	07/05/83	Lim
	AK4	4,466,442	08/21/84	Hilmann, <i>et al.</i>
	AA5	4,480,041	10/30/84	Myles, <i>et al.</i>
	AB5	4,524,769	06/25/85	Wetterlin
	AC5	4,572,203	02/25/86	Feinstein
	AD5	4,590,206	05/20/86	Forrester <i>et al.</i>
	AE5	4,615,697	10/07/86	Robinson
	AF5	4,679,555	07/14/87	Sackner
	AG5	4,741,872	05/03/88	De Luca, <i>et al.</i>
	AH5	4,743,545	05/10/88	Torobin
	AI5	4,774,958	10/04/88	Feinstein
	AJ5	4,789,550	12/06/88	Hommel, <i>et al.</i>
	AK5	4,818,542	04/04/89	De Luca, <i>et al.</i>
	AA6	4,847,091	07/11/89	Illum

EXAMINER

DATE CONSIDERED

RECEIVED
TECH CENTER 1600/2900
APR 11 2008

PTO-1449 REPRODUCED

FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

April 1, 2003

(Use several sheets if necessary)

ATTORNEY DOCKET NO.
2685.1003-001APPLICATION NO.
09/383,054APPLICANT
David A. Edwards, *et al.*FILING DATE
August 25, 1999CONFIRMATION NO.
6042GROUP
1615

U.S. PATENT DOCUMENTS

EXAM- INER INITIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AB6	4,855,144	08/08/89	Leong, <i>et al.</i>
	AC6	4,857,311	08/15/89	Domb, <i>et al.</i>
	AD6	4,861,627	08/29/89	Mathiowitz, <i>et al.</i>
	AE6	4,865,789	09/12/89	Castro, <i>et al.</i>
	AF6	4,904,479	02/27/90	Illum
	AG6	4,917,119	04/17/90	Potter, <i>et al.</i>
	AH6	4,963,297	10/16/90	Madden
	AI6	4,976,968	12/11/90	Steiner
	AJ6	4,994,281	02/19/91	Muranishi, <i>et al.</i>
	AK6	5,033,463	07/23/91	Cocozza
	AA7	5,064,650	11/12/91	Lew
	AB7	5,069,936	12/03/91	Yen
	AC7	5,075,109	12/24/91	Tice <i>et al.</i>
	AD7	5,100,669	03/31/92	Hyon <i>et al.</i>
	AE7	5,123,414	06/23/92	Unger
	AF7	5,145,684	09/08/92	Liversidge <i>et al.</i>
	AG7	5,160,745	11/03/92	De Luca <i>et al.</i>
	AH7	5,169,871	12/08/92	Hughes <i>et al.</i>
	AI7	5,174,988	12/29/92	Mautone <i>et al.</i>
	AJ7	5,195,520	03/23/93	Schlieff, <i>et al.</i>
	AK7	5,204,108	04/20/93	Illum
	AA8	5,204,113	04/20/93	Hartley, <i>et al.</i>
	AB8	5,260,306	11/09/93	Boardman <i>et al.</i>
	AC8	5,271,961	12/21/93	Mathiowitz, <i>et al.</i>
	AD8	5,306,483	04/26/94	Mautone

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT David A. Edwards, <i>et al.</i>	
April 1, 2003 (Use several sheets if necessary)		FILING DATE August 25, 1999	CONFIRMATION NO. 6042
			GROUP 1615

APR 09 2003
U.S. PATENT & TRADEMARK OFFICE
RECEIVED
APR 11 2003
TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS				
EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AE8	5,327,883	07/12/94	Williams, <i>et al.</i>
	AF8	5,334,381	08/02/94	Unger
	AG8	5,340,587	08/23/94	Milhalko <i>et al.</i>
	AH8	5,352,435	10/04/94	Unger
	AI8	5,384,133	01/24/95	Boyes <i>et al.</i>
	AJ8	5,393,524	02/28/95	Quay
	AK8	5,407,609	04/18/95	Tice, <i>et al.</i>
	AA9	5,456,917	10/10/95	Wise <i>et al.</i>
	AB9	5,466,841	11/14/98	Horrobin, <i>et al.</i>
	AC9	5,482,946	01/09/96	Clark, <i>et al.</i>
	AD9	5,518,709	05/21/96	Sutton, <i>et al.</i>
	AE9	5,518,998	05/21/96	Bäckström, <i>et al.</i>
	AF9	5,551,489	09/03/96	Trofast, <i>et al.</i>
	AG9	5,580,575	12/03/96	Unger <i>et al.</i>
	AH9	5,607,695	03/04/97	Ek <i>et al.</i>
	AI9	5,607,915	03/04/97	Patton
	AJ9	5,612,053	03/18/97	Baichwal <i>et al.</i>
	AK9	5,614,216	03/25/97	Janoff
	AA10	5,654,007	08/05/97	Johnson
	AB10	5,690,954	11/25/97	Illum
	AC10	5,698,721	12/16/97	Heath
	AD10	5,707,644	01/13/98	Illum
	AE10	5,709,884	01/20/98	Trofast, <i>et al.</i>
	AF10	5,780,014	07/14/98	Eljamal
	AG10	5,795,594	08/18/98	York, <i>et al.</i>

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT David A. Edwards, <i>et al.</i>	
APR 09 2003 RECEIVED & INDEXED RECEIVED APR 09 2003		FILING DATE August 25, 1999	CONFIRMATION NO. 6042
April 1, 2003 (Use several sheets if necessary)		GROUP 1615	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AH10	5,804,212	09/08/98	Illum
	AI10	5,814,607	09/29/98	Patton
	AJ10	5,830,853	11/03/98	Bäckström, <i>et al.</i>
	AK10	5,851,453	12/22/98	Hanna, <i>et al.</i>
	AA11	5,874,063	02/23/99	Briggner <i>et al.</i>
	AB11	5,885,613	03/23/99	Holland <i>et al.</i>
	AC11	5,902,802	05/11/99	Heath
	AD11	5,922,354	07/13/99	Johnson
	AE11	5,928,469	07/27/99	Franks <i>et al.</i>
	AF11	5,993,783	11/30/99	Eljamal
	AG11	6,019,968	02/01/00	Platz
	AH11	6,051,256	04/18/00	Platz
	AI11	6,063,138	05/16/00	Hanna <i>et al.</i>
	AJ11	6,080,721	06/27/00	Patton
	AK11	6,103,270	08/15/00	Johnson
	AA12	6,123,936	09/26/00	Platz
	AB12	6,136,346	10/24/00	Eljamal
	AC12	6,153,224	11/28/02	Staniforth
	AD12	6,187,330 B1	02/13/01	Wang <i>et al.</i>
	AE12	6,187,344 B1	02/13/01	Eljamal
	AF12	6,231,851 B1	05/15/01	Platz
	AG12	6,258,341 B1	07/10/01	Foster
	AH12	6,303,582 B1	10/16/01	Eljamal
	AI12	6,309,671 B1	10/30/01	Foster
	AJ12	6,315,983 B1	11/13/01	Eistetter

TECH CENTER 1600/2900

APR 11 2003

RECEIVED

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO.	APPLICATION NO.	
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION	2685.1003-001	09/383,054	
APR 09 2003 USPTO (See several sheets if necessary)	APPLICANT	David A. Edwards, <i>et al.</i>	
	FILING DATE	CONFIRMATION NO.	GROUP
	August 25, 1999	6042	1615

U.S. PATENT DOCUMENTS

RECEIVED
APR 11 2003
TECH CENTER 1600/2300

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT David A. Edwards, <i>et al.</i>	
APR 09 2003 SCG use several sheets if necessary)		FILING DATE August 25, 1999	CONFIRMATION NO. 6042
		GROUP 1615	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO
	AQ2	WO 80/02365	13/11/80	PCT			
	AL3	WO 86/06959	04/12/86	PCT			
	AM3	WO 88/04556	30/06/88	PCT			
	AN3	WO 88/09163	01/12/88	PCT			
	AO3	WO 91/04732	18/04/91	PCT			
	AP3	WO 91/06286	16/05/91	PCT			
	AQ3	WO 91/06287	16/05/91	PCT			
	AL4	WO 91/12823	05/09/91	PCT			
	AM4	This reference number intentionally left blank					
	AN4	WO 92/18164	29/10/92	PCT			
	AO4	WO 92/21382	10/12/92	PCT			
	AP4	WO 93/25221	23/12/93	PCT			
	AQ4	WO 94/04133	03/03/94	PCT			
	AL5	WO 94/07514	14/04/94	PCT			
	AM5	WO 94/08627	28/04/94	PCT			
	AN5	WO 94/16739	04/08/94	PCT			
	AO5	WO 95/00127	05/01/95	PCT			
	AP5	WO 95/07072	16/03/95	PCT			
	AQ5	WO 95/24183	14/09/95	PCT			
	AL6	WO 95/31479	23/11/95	PCT (Platz)			
	AM6	WO 95/35097	28/12/95	PCT			
	AN6	WO 96/09814	04/04/96	PCT			
	AO6	This reference number intentionally left blank					
	AP6	WO 96/23485	08/08/96	PCT			

RECEIVED
APR 11 2003
TECH CENTER 1600
1600/2900

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054	
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT David A. Edwards, <i>et al.</i>		
April 1, 2003 (Use several sheets if necessary)		FILING DATE August 25, 1999	CONFIRMATION NO. 6042	GROUP 1615

O I P E
APR 09 2003
JC58

RECEIVED
TECH CENTER 1600/2900
APR 11 2003

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO
AQ6	WO 96/32096	17/10/96	PCT (Eljamal)				
AL7	WO 96/32116	17/10/96	PCT (Eljamal)				
AM7	WO 96/32149	17/10/96	PCT (Platz)				
AN7	WO 96/40963	19/12/96	PCT				
AO7	WO 96/41873	27/12/96	PCT				
AP7	WO 97/03649	06/02/97	PCT				
AQ7	WO 97/36574	09/10/97	PCT				
AL8	This reference number intentionally left blank						
AM8	WO 98/16205	23/04/98	PCT (Foster)				
AN8	WO 98/29096	09/07/98	PCT (Gordon)				
AO8	WO 98/29098	09/07/98	PCT (Gordon)				
AP8	WO 98/29140	09/07/98	PCT (Gordon)				
AQ8	WO 98/29141	09/07/98	PCT (Gordon)				
AL9	WO 98/51278	19/11/98	PCT				
AM9	WO 99/16419	08/04/99	PCT				
AN9	WO 99/16420	08/04/99	PCT				
AO9	WO 99/16421	08/04/99	PCT				
AP9	WO 99/16422	08/04/99	PCT				
AQ9	WO 99/66903	29/12/99	PCT				
AL10	WO 00/15262	23/03/00	PCT (Clark)				
AM10	WO 00/21594	20/04/00	PCT (Clark)				
AN10	WO 00/33811	15/06/00	PCT				
AO10	WO 01/00312 A1	04/01/01	PCT (Bennett)				
AP10	WO 01/13891 A3	01/03/01	PCT				

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION		
APR 09 2003 SEARCHED & INDEXED USE several sheets if necessary)	APPLICANT David A. Edwards, <i>et al.</i>	
April 1, 2003	FILING DATE August 25, 1999	CONFIRMATION NO. 6042
		GROUP 1615

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO
AQ10	WO 01/32144 A1	10/05/01	PCT (Lechuga-Ballesteros)			
AL11	WO 02/09669 A3	07/02/00	PCT (Snyder)			
AM11	WO 02/11695 A3	14/02/02	PCT (Stevenson)			
AN11	WO 02/054868 A2	18/07/02	PCT (Weickert)			
AO11	WO 02/055101 A2	18/07/02	PCT (Hastedt)			
AP11	WO 02/087542 A1	07/11/02	PCT (Bot)			
AQ11	EP 0 072 046 A1	16/02/03	EPO			
AL12	EP 0 213 303 B1	04/09/91	EPO			
AM12	EP 0 257 915 A1	02/03/88	EPO			
AN12	EP 0 257 956 B1	20/05/92	EPO			
AO12	EP 0 324 938 A1	26/07/89	EPO			
AP12	EP 0 335 133 A2	04/10/89	EPO			
AQ12	EP 0 458 745 A1	14/05/91	EPO			
AL13	EP 0 510 731 A1	28/10/92	EPO			
AM13	EP 0 634 166 A1	18/01/95	EPO			
AN13	EP 0 656 206 A1	07/06/95	EPO			
AO13	1 288 583	17/11/69	GB			
AP13	1,300,009	05/05/92	Canada			
AQ13	1,302,258	02/06/92	Canada			
AL14	2,058,428	05/09/00	Canada			
AM14	2,085,884	30/12/91	Canada			
AN14	2,111,002	22/08/00	Canada			
AO14	2,126,244	26/09/00	Canada			
AP14	2,166,108	05/01/95	Canada			
AQ14	2,170,394	02/03/95	Canada			

RECEIVED
APR 11 2003
TECH CENTER 1600/2900

EXAMINER	DATE CONSIDERED
----------	-----------------

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT David A. Edwards, <i>et al.</i>
APR 09 2003 FACSIMILE & TELETYPE RECEIVED U.S. PATENT & TRADEMARK OFFICE APR 11 2003 TECH CENTER 1600/2900	FILING DATE August 25, 1999	CONFIRMATION NO. 6042
		GROUP 1615

April 1, 2003
(use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ARS	Adjei, A., and Garren, J., "Pulmonary Delivery of Peptide Drugs: Effect of Particle Size on Bioavailability of Leuprolide Acetate in Healthy Male Volunteers," <i>Pharm. Res.</i> , 7(6):565-569 (1990).
AS5	Allen, T.M., <i>et al.</i> , "Subcutaneous Administration of Liposomes: A Comparison with the Intravenous and Intraperitoneal Routes of Injection," <i>Biochem. et Biophys. Acta.</i> 1150:9-16 (1993).
AT5	Altshuler, B., <i>et al.</i> , "Aerosol Deposition in the Human Respiratory Tract," <i>Am. Med. Assoc. Arch. of Indust. Health</i> 15:293-303 (1957) .
AU5	Anderson, P.J., <i>et al.</i> , "Effect of Cystic Fibrosis on Inhaled Aerosol Boluses," <i>Am. Rev. Respir. Dis.</i> , 140:1317-1324 (1989).
AV5	Anderson, M., <i>et al.</i> , "Human Deposition and Clearance of 6- μ m Particles Inhaled with an Extremely Low Flow Rate," <i>Exp. Lung Res.</i> , 21:187-195 (1995).
AW5	Barrera, D.A., <i>et al.</i> , "Synthesis and RGD Peptide Modification of a New Biodegradable Copolymer: Poly(lactic acid-co-lysine)," <i>J. Am. Chem. Soc.</i> , 115:11010-11011 (1993) .
AX5	Beck, L.R., <i>et al.</i> , "A New Long-Acting Injectable Microcapsule System for the Administration of Progesterone," <i>Fertility and Sterility</i> , 31(5):545-551 (1979) .
AY5	Benita, S., <i>et al.</i> , "Characterization of Drug-loaded Poly(<i>d,l</i> -lactide) Microspheres," <i>J. of Pharm. Sci.</i> 73(12):1721-1724 (1984).
AZ5	Blackett, P.M., and G. Buckton, "A Microcalorimetric Investigation of the Interaction of Surfactants with Crystalline and Partially Crystalline Salbutamol Sulphate in a Model Inhalation Aerosol System," <i>Pharmaceutical Research</i> , 12(11):1689-1693 (1995).
AR6	Brain, J.D., "Physiology and Pathophysiology of Pulmonary Macrophages". In <i>The Reticuloendothelial System</i> , Reichard and Filkins, eds. (Plenum Press, New York), pp. 315-327 (1985) .
AS6	Brown, A.R., <i>et al.</i> , "Propellant-Driven Aerosols of Functional Proteins as Potential Therapeutic Agents in the Respiratory Tract," <i>Immunopharmacology</i> , 28:241-257 (1994).
AT6	Byron, P.R., "Determinants of Drug and Polypeptide Bioavailability from Aerosols Delivered to the Lung," <i>Adv. Drug Del. Rev.</i> , 5:107-132 (1990).
AU6	Carroll, B.A., <i>et al.</i> , "Gelatin Encapsulated Nitrogen Microbubbles as Ultrasonic Contrast Agents," <i>Investigative Radiology</i> , 15:260-266 (1980).

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.
2685.1003-001APPLICATION NO.
09/383,054FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

APPLICANT

David A. Edwards, *et al.*

April 1, 2003

FILING DATE

August 25, 1999

CONFIRMATION NO.
6042GROUP
1615APR 09 2003
O P F
RECEIVED
PATENT & TRADEMARK OFFICE
USE SEVERAL SHEETS IF NECESSARYAPR 11 2003
TECH CENTER 1600/2000
RECEIVEDOTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

AV6	Carroll, B.A., <i>et al.</i> , "Ultrasonic Contrast Enhancement of Tissue by Encapsulated Microbubbles," <i>Radiology</i> , 143:747-750 (1982).
AW6	Ch'ng, H.S., <i>et al.</i> , "Bioadhesive Polymers as Platforms for Oral Controlled Drug Delivery II: Synthesis and Evaluation of Some Swelling, Water-Insoluble Bioadhesive Polymers," <i>J. of Pharm Sci.</i> , 74(4):399-405 (1985).
AX6	Clark, A., and P. Byron, "Dependence of Pulmonary Absorption Kinetics on Aerosol Particle Size," <i>Z. Erkrank. Atm.org.</i> , 166:13-24 (1986).
AY6	Clark, A.R., and M. Egan, "Modeling the Deposition of Inhaled Powdered Drug Aerosols," <i>J. Aerosol Sci.</i> , 25(1):175-186 (1994).
AZ6	Clay, M.M., <i>et al.</i> "Effect of Aerosol Particle Size on Bronchodilatation with Nebulised Terbutaline in Asthmatic Subjects," <i>Thorax</i> 41:364-368(1986).
AR7	Cohen, S., <i>et al.</i> , "Controlled Delivery Systems for Proteins Based on Poly(Lactic/Glycolic Acid) Microspheres," <i>Pharm. Res.</i> 8(6):713-720(1991).
AS7	Colthorpe, P., <i>et al.</i> , "The Pharmacokinetics of Pulmonary-Delivered Insulin: A Comparison of Intratracheal and Aerosol Administration to the Rabbit," <i>Pharm. Res.</i> 9(6):764-768 (1992).
AT7	Daly, W.H., <i>et al.</i> , "The Preparation of N-Carboxyanhydrides of α -Amino Acids Using Bis(Trichloromethyl) Carbonate," <i>Tetrahedron Lett.</i> , 29(46):5859-5862 (1988).
AU7	Damms, B. and W. Bains, "The Cost of Delivering Drugs without Needles," <i>J. Controlled Release</i> , 8-11 (1996).
AV7	Darquenne, C., and M. Paiva, "Two and Three-Dimensional Simulations of Aerosol Transport and Deposition in Alveolar Zone of Human Lung," <i>Journal of Applied Physiology</i> , 80(4):1401-1414 (1996).
AW7	Davies, C.N., <i>et al.</i> , "Breathing of Half-micron Aerosols. I. Experimental," <i>J. of Appl. Physiol.</i> 32(5):591-600(1972).
AX7	Davis, S.S., and L. Illum, "Polymeric Microspheres as Drug Carriers," <i>Biomaterials</i> , 9:111-115 (1988).
AY7	Davis, S.S., <i>et al.</i> , "Microspheres as Controlled-Release Systems for Parenteral and Nasal Administration," <i>Controlled Release Technology</i> , Chapter 15, pp. 201-213 (1987).
AZ7	Dorries, A.M., and Valberg P.A., "Heterogeneity of Phagocytosis for Inhaled Versus Instilled Material," <i>Am. Rev. Respir. Dis.</i> , 146:831-837 (1992).

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION	APPLICANT David A. Edwards, <i>et al.</i>	
April 1, 2003 (use several sheets if necessary)	FILING DATE August 25, 1999	CONFIRMATION NO. 6042
		GROU 1615

RECEIVED
APR 11 2003
TECH CENTER 1600/2900
U.S. PATENT AND TRADEMARK OFFICE

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

AR8	Eldridge, J. H., <i>et al.</i> , "Biodegradable Microspheres as a Vaccine Delivery System," <i>Mol. Immunol.</i> , 28(3):287-294 (1991).
AS8	Feinstein, S.B., <i>et al.</i> , "Two-Dimensional Contrast Echocardiography I. In Vitro Development and Quantitative Analysis of Echo Contrast Agents," <i>JACC</i> 3(1):14-20 (1984).
AT8	Ferin, J., <i>et al.</i> , "Pulmonary Retention of Ultrafine and Fine Particles in Rats," <i>Am. J. Respir. Cell Mol. Biol.</i> 6:535-542 (1992).
AU8	Findeisen, W. "Über Das Absetzen Kleiner, in Der Luft Suspenderter Teilchen in Der Menschlichen Lunge Bei Der Atmung," <i>Pflugers Arch. D. Ges. Physiol.</i> 236:367-379 (1935).
AV8	Ganderton, D., "The Generation of Respirable Clouds Form Coarse Powder Aggregates," <i>J. Biopharmaceutical Sciences</i> , 3(1/2):101-105 (1992).
AW8	Gehr, P. <i>et al.</i> , "Surfactant and Inhaled Particles in the Conducting Airways: Structural, Stereological, and Biophysical Aspects," <i>Microscopy Res. And Tech.</i> , 26:423-436 (1993).
AX8	Gerrity, T.R., <i>et al.</i> , "Calculated Deposition of Inhaled Particles in the Airway Generations of Normal Subjects," <i>J. Appl. Phys.</i> , 47(4):867-873 (1979).
AY8	Gonda, I., "Preface. Major Issues and Future Prospects in the Delivery of Therapeutic and Diagnostic Agents to the Respiratory Tract," <i>Adv. Drug Del. Rev.</i> 5:1-9 (1990).
AZ8	Gonda, I., "Targeting by Deposition," in <i>Pharmaceutical Inhalation Aerosol Technology</i> (ed. A.J. Hickey), Marcel Dekkar Inc., pp. 61-82, New York (1992).
AR9	Gurny, R., <i>et al.</i> , "Bioadhesive Intraoral Release Systems: Design, Testing and Analysis," <i>Biomaterials</i> , 5:336-340 (1984).
AS9	Heyder, J., and G. Rudolf, "Mathematical models of particle deposition in the human respiratory tract," <i>J. Aerosol Sci.</i> , 15:697-707 (1984).
AT9	Heyder, J., <i>et al.</i> , "Total Deposition of Aerosol Particles in the Human Respiratory Tract for Nose and Mouth Breathing," <i>J. Aerosol Sci.</i> , 6:311-328 (1975).
AU9	Hickey, A.J., <i>et al.</i> , "Use of Particle Morphology to Influence the Delivery of Drugs from Dry Powder Aerosols," <i>J. Biopharmaceutical Sci.</i> , 3(1/2):107-113 (1992).

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION April 1, 2003 (Use several sheets if necessary)		APPLICANT David A. Edwards, <i>et al.</i>	
		FILING DATE August 25, 1999	CONFIRMATION NO. 6042
		GROUP 1615	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AV9	Hirano, S., <i>et al.</i> , "Pulmonary Clearance and Toxicity of Zinc Oxide Instilled into the Rat Lung," <i>Arch. of Toxicology</i> , 63:336-342 (1989).
AW9	Hrkach, <i>et al.</i> , "Synthesis of Poly(L-lactic acid-co-L-lysine) Graft Copolymers," <i>Macromolecules</i> , 28(13):4736-4739 (1995).
AX9	Hrkach, J.S., <i>et al.</i> , "Poly(L-Lactic acid-co-amino acid) Graft Copolymers: A Class of Functional Biodegradable Biomaterials" in Hydrogels and Biodegradable Polymers for Bioapplications, ACS Symposium Series No. 627, Raphae M. Ottenbrite, <i>et al.</i> , Eds., Americal Chemical Society, Chapter 8, pp. 93-101, 1996.
AY9	Illum, L., <i>et al.</i> , "Bioadhesive Microspheres as a Potential Nasal Drug Delivery System," <i>Int. J. of Pharm.</i> 39:189-199 (1987).
AZ9	Johnson, M.A., <i>et al.</i> "Delivery of Albuterol and Ipratropiumbromide from Two Nebulizer Systems in Chronic Stable Asthma: Efficacy and Pulmonary Deposition," <i>Chest</i> , 96:6-10 (1989).
AR10	Kao, Y.J., and R.L. Juliano, "Interactions of Liposomes with the Reticuloendothelial System, Effects of Reticuloendothelial Blockade on the Clearance of Large Unilamellar Vesicles," <i>Biochimica et Biophys. Acta</i> . 677:453-461 (1981).
AS10	Kassem, N.M., and D. Ganderton, "The Influence of Carrier Surface on the Characteristics of Inspirable Powder Aerosols," <i>J. Pharm. Pharmacol.</i> , 42(Supp):11 (1990).
AT10	Kobayashi, S. <i>et al.</i> , "Pulmonary Delivery of Salmon Calcitonin Dry Powders Containing Absorption Enhancers in Rats," <i>Pharm. Res.</i> , 13(1):80-83 (1996).
AU10	Kohler, D., "Aerosols for Systemic Treatment" <i>Lung</i> , Suppl: pp. 677-684 (1990).
AV10	Komada, F. <i>et al.</i> , Intratracheal Delivery of Peptide and Protein Agents: Absorption from Solution and Dry Powder by Rat Lung," <i>J. Pharm. Sci.</i> , 83(6): 863-867 (June, 1994).
AW10	Kricheldorf, H.R. " α -Aminoacid-N-Carboxy-Anhydrides and Related Heterocycles," Springer-Verlag, Berlin (1987).
AX10	Kwok, K.K., <i>et al.</i> , "Production of 5-15 μ m Diameter Alginate Polylysine Microcapsules by an Air Atomization Technique," <i>Pharm. Res.</i> , 8(3):341-344 (1991).
AY10	Lai, Y-L., <i>et al.</i> , "Sustained Bronchodilation with Isoproterenol Poly(Glycolide-co-Lactide) Microspheres," <i>Pharm. Res.</i> , 10(1):119-125 (1993).

EXAMINER	DATE CONSIDERED
----------	-----------------

RECEIVED
 APR 11 2003
 TECH CENTER 1600/2900

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054	
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANT David A. Edwards, <i>et al.</i>		
April 1, 2003 <i>(Use several sheets if necessary)</i>		FILING DATE August 25, 1999	CONFIRMATION NO. 6042	GROUP 1615

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

AZ10	Lai, W.C., <i>et al.</i> , "Protection Against <i>Mycoplasma Pulminosis</i> Infection by Genetic Vaccination," <i>DNA and Cell Biology</i> , 14(7):643-651 (1995).
AR11	Landahl, "On The Removal of Air-borne Droplets by The Human Respiratory Tract: I. The Lung," <i>Bull. Math. Biophys.</i> , 12:43-56 (1950).
AS11	Langer, R., "New Methods of Drug Delivery", <i>Science</i> , 249:1527-1533 (1990).
AT11	Le Corre, P., <i>et al.</i> , "Preparation and Characterization of Bupivacaine-Loaded Polylactide and Polylactide-Co-Glycolide Microspheres," <i>Int. J. of Pharmaceutics</i> , 107:41-49 (1994).
AU11	Leone-Bay, A., <i>et al.</i> , "Microsphere Formation in a Series of Derivatized α -Amino Acids: Properties, Molecular Modeling, and Oral Delivery of Salmon calcitonin," <i>J. of Med. Chem.</i> , 38(21):4257-4262 (1995).
AV11	Liu, F., <i>et al.</i> , "Pulmonary Delivery of Free and Liposomal Insulin," <i>Pharm. Res.</i> 10(2):228-232 (1993).
AW11	Liu, W.R., <i>et al.</i> , "Moisture-Induced Aggregation of Lyophilized Proteins in the Solid State," <i>Biotechnol. and Bioeng.</i> , 37:177-184 (1991).
AX11	Martonen, T.B., "Mathematical Model for the Selective Deposition of Inhaled Pharmaceuticals", <i>J. of Pharm. Sci.</i> , 82(12):1191-1198 (1993).
AY11	Masinde, L.E., and Hickey, A.J., "Aerosolized Aqueous Suspensions of Poly(L-Lactic Acid) Microspheres," <i>Int. J. of Pharmaceutics</i> , 100:123-131 (1993).
AZ11	Mathiowitz, E., <i>et al.</i> , "Novel Microcapsules for Delivery Systems," <i>Reactive Polymers</i> , 6:275-283 (1987).
AR12	Mathiowitz, E., <i>et al.</i> , "Polyanhydride Microspheres. IV. Morphology and Characterization of Systems Made by Spray Drying," <i>J. of Appl. Polymer Sci.</i> 45:125-134 (1992).
AS12	Mathiowitz, E., <i>et al.</i> , "Morphology of Polyanhydride Microsphere Delivery Systems," <i>Scanning Microscopy</i> , 4(2):329-340 (1990).
AT12	Mathiowitz, E., and R. Langer, "Polyanhydride Microspheres as Drug Carriers I. Hot-Melt Microencapsulation," <i>J. of Controlled Release</i> 5:13-22 (1987).
AU12	Mathiowitz, E., <i>et al.</i> , "Polyanhydride Microspheres as Drug Carriers. II. Microencapsulation by Solvent Removal," <i>J. of Appl. Polymer Sci.</i> , 35:755-774 (1988).

EXAMINER	DATE CONSIDERED
----------	-----------------

RECEIVED
APR 11 2003
TECH CENTER 1600/200

PTO-1449 REPRODUCED

FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

APR 09 2003

April 1, 2003

(Use several sheets if necessary)

ATTORNEY DOCKET NO.
2685.1003-001APPLICATION NO.
09/383,054APPLICANT
David A. Edwards, *et al.*FILING DATE
August 25, 1999CONFIRMATION NO.
6042GROUP
1615

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AV12	Ménache, M.G., <i>et al.</i> , "Particle Inhalability Curves for Humans and Small Laboratory Animals," <i>Annals of Occupational Hygiene</i> , 39(3):317-328 (1995).
AW12	Morimoto, Y., and Adachi, Y., "Pulmonary Uptake of Liposomal Phosphatidylcholine Upon Intratracheal Administration to Rats," <i>Chem. Pharm. Bull.</i> 30(6):2248-2251 (1982).
AX12	Mulligan, R.C., "The Basic Science of Gene Therapy", <i>Science</i> , 260:926-932 (1993).
AY12	This reference number intentionally left blank.
AZ12	This reference number intentionally left blank.
AR13	Newman, S.P., "Therapeutic Inhalation Agents and Devices," <i>Inhalation Therapy</i> , 76(5):194-207 (1984).
AS13	Newman, S.P., "Aerosol Deposition Considerations in Inhalation Therapy," <i>Chest</i> , 88(2):152S-160S (1985).
AT13	Niven, R.W., <i>et al.</i> , "The Pulmonary Absorption of Aerosolized and Intratracheally Instilled rhG-CSF and monoPEGylated rhG-CSF," <i>Pharm. Res.</i> , 12(9):1343-1349 (1995).
AU13	Niven, R.W., <i>et al.</i> , "Solute Absorption From the Airways of the Isolated Rat Lung. III. Absorption of Several Peptidase-Resistant, Synthetic Polypeptides: Poly-(2-Hydroxyethyl)-Aspartamides," <i>Pharm. Res.</i> , 7(10):990-994 (1990).
AV13	Niwa, T., <i>et al.</i> , "Aerosolization of Lactide/Glycolide Copolymer (PLGA) Nanospheres for Pulmonary Delivery of Peptide-Drugs," <i>Yakugaku Zasshi</i> , 115(9):732-741 (1995).
AW13	Ogiwara, M., "Clearance and Maximum Removal Rate of Liposomes in Normal and Impaired Liver of Rat," <i>Gastroenterologia Japonica</i> , 19(1):34-40 (1984).
AX13	Okumura, K., <i>et al.</i> , "Intratracheal Delivery of Insulin. Absorption from Solution and Aerosol by Rat Lung," <i>Int. J. Pharmaceutics</i> , 88:63-73 (1992).
AY13	This reference number intentionally left blank.
AZ13	Patton, J.S., <i>et al.</i> , "Bioavailability of pulmonary delivered peptides and proteins: α -interferon, calcitonins and parathyroid hormones," <i>J. Controlled Release</i> , 28:79-85 (1994).

RECEIVED
APR 11 2003
TECH CENTER 1000/2900

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION APR 09 2003 01 08 April 1, 2003 PATENT & TRADEMARK USE (Use several sheets if necessary)	APPLICANT David A. Edwards, <i>et al.</i>	
	FILING DATE August 25, 1999	CONFIRMATION NO. 6042
		GROUP 1615

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR14	Pavia, D., "Lung Mucociliary Clearance". In <i>Aerosols and the Lung: Clinical and Experimental Aspects</i> , Clarke, S.W. and Pavia, D., eds. (Butterworths, London), pp. 127-155, (1984).
AS14	Peart, J. <i>et al.</i> , "Multicomponent Particle Interactions in Dry Powder Aerosols," <i>J. Pharm. Res.</i> 14(11 Suppl):p S142-S143 (November 1997).
AT14	Pinkerton, K.E., <i>et al.</i> , "Aerosolized Fluorescent Microspheres Detected in the Lung Using Confocal Scanning Laser Microscopy", <i>Microscopy Res. and Tech.</i> , 26:437-443 (1993).
AU14	Rudt, S., and R.H. Muller, "In Vitro Phagocytosis Assay of Nano- and Microparticles by Chemiluminescence. I. Effect of Analytical Parameters, Particle Size and Particle Concentration," <i>J. Contr. Rel.</i> , 22:263-271 (1992).
AV14	Rudt, S., <i>et al.</i> , "In Vitro Phagocytosis Assay of Nano- and Microparticles by Chemiluminescence. IV. Effect of Surface Modification by Coating of Particles with Poloxamine and Antarox CO on the Phagocytic Uptake", <i>J. of Contr. Rel.</i> 25:123-132 (1993).
AW14	Ruffin, R.E., <i>et al.</i> , "The Preferential Deposition of Inhaled Isoproterenol and Propranolol in Asthmatic Patients," <i>Ches</i> 80(6):904-907 (1981).
AX14	Sela, M., <i>et al.</i> , "Multichain Polyamino Acids," <i>J. Am. Chem. Soc.</i> , 78:746-751 (1956).
AY14	Smith, A.L., and B. Ramsey, "Aerosol Administration of Antibiotics," <i>Respiration</i> , 62(suppl 1):19-24 (1995).
AZ14	Smith, P.L., "Peptide Delivery via the Pulmonary Route: A Valid Approach for Local and Systemic Delivery," <i>J. of Contr. Rel.</i> , 46:99-106 (1997).
AR15	Strand, S.E., and L. Bergqvist, "Radiolabeled Colloids and Macromolecules in the Lymphatic System," <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 6(3):211-238 (1989)
AS15	Swift, D., "The Oral Airway - A Conduit or Collector for Pharmaceutical Aerosols?" <i>Respiratory Drug Delivery IV</i> , 187-195 (1994).
AT15	Tabata, Y., <i>et al.</i> , "Controlled Delivery Systems for Proteins Using Polyanhydride Microspheres," <i>Pharm. Res.</i> 10(4):487-496 (1993).
AU15	Tabata, Y., and Y. Ikada, "Effect of Surface Wettability of Microspheres on Phagocytosis," <i>J. of Colloid and Interface Sci.</i> , 127(1):132-140 (1989).

EXAMINER	DATE CONSIDERED
----------	-----------------

RECEIVED
APR 11 2003
TECH CENTER 1600/22

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. 2685.1003-001	APPLICATION NO. 09/383,054
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION April 1, 2003 (use several sheets if necessary)	APPLICANT David A. Edwards, <i>et al.</i>	
	FILING DATE August 25, 1999	CONFIRMATION NO. 6042
		RECEIVED APR 11 2003 FEDERAL TRADE COMMISSION TECH CENTER 1600/2900 1615

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

AV15	Tabata, Y., and Y. Ikada, "Macrophage Phagocytosis of Biodegradable Microspheres Composed of L-lactic Acid/glycolic Acid Homo- and Copolymers," <i>J. of Biomed. Mater. Res.</i> , 22:837-858 (1988).
AW15	Tabata, Y., and Ikada, Y., "Effect of Size and Surface Charge of Polymer Microspheres on Their Phagocytosis by Macrophage," <i>J. Biomed. Mater. Res.</i> , 22:837-843 (1988).
AX15	Taburet, A.M., and Schmit, B., "Pharmacokinetic Optimisation of Asthma Treatment," <i>Clin. Pharmacokinet.</i> 26(5):396-418 (1994).
AY15	Tansey, I.P., "The Challenges in the Development of Metered Dose Inhalation Aerosols Using Ozone-Friendly Propellants," <i>Spray Technol. & Market</i> , 4:26-29 (1994).
AZ15	Timsina, M.P., <i>et al.</i> , "Drug Delivery to the Respiratory Tract Using Dry Powder Inhalers," <i>Int. J. of Pharm.</i> , 101:1-13 (1994).
AR16	Turner, J.R., and S.V. Hering, "Greased and Oiled Substrates as Bounce-Free Impaction Surfaces," <i>J. Aerosol Sci.</i> , 18(2):215-224 (1987).
AS16	Wall, D.A., "Pulmonary Absorption of Peptides and Proteins," <i>Drug Delivery</i> , 2:1-20 (1995).
AT16	Warheit, D.B., and Hartsky, M.A., "Role of Alveolar Macrophage Chemotaxis and Phagocytosis in Pulmonary Clearance to Inhaled Particles: Comparisons Among Rodent Species," <i>Microscopy Res. and Tech.</i> , 26:412-422 (1993).
AU16	Weiner, Norman <i>et al.</i> , "Liposomes as a Drug Delivery System," <i>Drug Development and Industrial Pharmacy</i> , 15(10):1523-1554 (1989).
AV16	Wheatley, M.A., <i>et al.</i> , "Contrast Agents for Diagnostic Ultrasound: Development and Evaluation of Polymer-Coated Microbubbles," <i>Biomaterials</i> 11:713-717 (1990).
AW16	Wichert, B., and Rohdewald, P., "Low Molecular Weight PLA: A Suitable Polymer for Pulmonary Administered Microparticles?," <i>J. Microencapsulation</i> , 10(2):195-207 (1993).
AX16	Wong, M., and Suslick, K.S., "Sonochemically Produced Hemoglobin Microbubbles," <i>Mat. Res. Soc. Symp. Proc.</i> , 372:89-95 (1995).
AY16	Zanen, P., <i>et al.</i> , "The Optimal Particle Size for β -adrenergic Aerosols in Mild Asthmatics", <i>Int. J. of Pharm.</i> , 107:211-217 (1994).

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO.	APPLICATION NO.
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION	2685.1003-001	09/383,054
APR 09 2003 C51 PATENT & TRADEMARK OFFICE Use several sheets if necessary)	APPLICANT	David A. Edwards, <i>et al.</i>
	FILING DATE	CONFIRMATION NO.
	August 25, 1999	6042
		GROUP 1615

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

RECEIVED
PR 1

APR 11 2003

TECH CENTER 1600/2900
APR 11 2003